

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		<b>ATTORNEY'S DOCKET NUMBER 3802-165-27 NATL</b> <b>10/553459</b> <small>U.S. APPLICATION NO. (if known, see 37 CFR 1.5)</small>
INTERNATIONAL APPLICATION NO. <b>PCT/US2004/011622</b>	INTERNATIONAL FILING DATE <b>15 April 2004</b>	PRIORITY DATE CLAIMED <b>15 April 2003</b>
TITLE OF INVENTION <b>FLAP ENDONUCLEASE 1 (FEN1) REGULATORY SEQUENCES AND USES THEREOF</b>		
APPLICANT(S) FOR DO/EO/US <b>Paul HALLENBECK, Garret HAMPTON, Carl HAY, Ying HUANG, John JAKUBCZAK and Sandrina PHIPPS</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<div style="margin-left: 20px;">1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</div> <div style="margin-left: 20px;">2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</div> <div style="margin-left: 20px;">3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</div> <div style="margin-left: 20px;">4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</div> <div style="margin-left: 20px;">5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))<div style="margin-left: 40px;">a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</div><div style="margin-left: 40px;">b. <input type="checkbox"/> has been communicated by the International Bureau.</div><div style="margin-left: 40px;">c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</div></div> <div style="margin-left: 20px;">6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).<div style="margin-left: 40px;">a. <input checked="" type="checkbox"/> is attached hereto.</div><div style="margin-left: 40px;">b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</div></div> <div style="margin-left: 20px;">7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))<div style="margin-left: 40px;">a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</div><div style="margin-left: 40px;">b. <input type="checkbox"/> have been communicated by the International Bureau.</div><div style="margin-left: 40px;">c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</div><div style="margin-left: 40px;">d. <input type="checkbox"/> have not been made and will not be made.</div></div> <div style="margin-left: 20px;">8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</div> <div style="margin-left: 20px;">9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</div> <div style="margin-left: 20px;">10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</div>		
<b>Items 11 to 20 below concern document(s) or information included:</b>		
<div style="margin-left: 20px;">11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</div> <div style="margin-left: 20px;">12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</div> <div style="margin-left: 20px;">13. <input type="checkbox"/> A preliminary amendment.</div> <div style="margin-left: 20px;">14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</div> <div style="margin-left: 20px;">15. <input type="checkbox"/> A substitute specification.</div> <div style="margin-left: 20px;">16. <input type="checkbox"/> A power of attorney and/or change of address letter.</div> <div style="margin-left: 20px;">17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</div> <div style="margin-left: 20px;">18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</div> <div style="margin-left: 20px;">19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</div>		

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20. Other items or information: White Advance Serial Number Postcard; International Search Report; Written Opinion					
The following fees have been submitted				CALCULATIONS	PTO USE ONLY
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300				\$ 300.00	
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))					
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200				\$ 200.00	
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500				\$ 100.00	
<b>TOTAL OF 21, 22 and 23 =</b>				<b>600.00</b>	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
64 - 100 =	0 /50 =		x \$250	\$	
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	32 - 20 =	12	x \$ 50	\$ 600.00	
Independent claims	2 - 3 =		x \$200	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$ 1,200.00</b>	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				600.00	
<b>SUBTOTAL =</b>				<b>\$</b>	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$	
<b>TOTAL NATIONAL FEE =</b>				<b>\$ 600.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$ 600.00</b>	
				Amount to be refunded:	\$
				Amount to be charged	\$

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PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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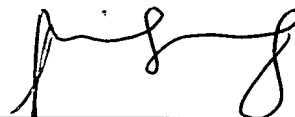
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- a. ☒ A check in the amount of \$ 600.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-1442. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

## SEND ALL CORRESPONDENCE TO:

Patent Group  
DLA Piper Rudnick Gray Cary US LLP  
1200 Nineteenth Street, N.W.  
Washington, D.C. 20036-2412



48,328 for

SIGNATURE

Linda R. Judge

NAME

42,702

REGISTRATION NUMBER